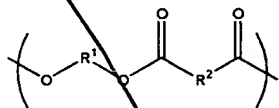


## Claims

- [c1] 1. A multilayer composition, comprising  
 an upper layer comprising  
 a polymer system consisting essentially of a cycloaliphatic polyester resin, and  
 an additive composition comprising a hindered amine light stabilizer and a low  
 volatility, hydroxyphenyl-triazine or -pyrimidine UV absorber;  
 an intermediate layer comprising  
 a polymer system consisting essentially of a cycloaliphatic polyester, and  
 optionally,  
 an additive composition comprising  $\text{TiO}_2$ , dyes, pigments, special effects  
 additives, or a combination comprising at least one of the foregoing; and  
 a polymeric substrate, wherein said intermediate layer is disposed between and in  
 intimate contact with said upper layer and said substrate.

- [c2] 2. The composition of claim 1, wherein said cycloaliphatic polyester has recurring  
 units of the formula:

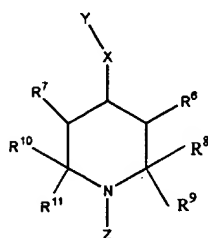


wherein  $\text{R}^1$  is an alkyl or cycloaliphatic radical preferably having from 2 to about  
 12 carbon atoms, and  $\text{R}^2$  is an alkyl or a cycloaliphatic radical, provided that at  
 least one of  $\text{R}^1$  or  $\text{R}^2$  is a cycloalkyl group.

- [c3] 3. The composition of claim 2, wherein  $\text{R}^1$  and  $\text{R}^2$  is each a cyclohexylidene.

- [c4] 4. The composition of claim 1, wherein said hindered amine light stabilizer  
 comprises a substituted piperidine moiety or an oligomer substituted piperidine  
 moiety.

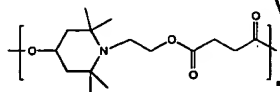
- [c5] 5. The composition of claim 4, wherein said hindered amine light stabilizer is a 4-  
 piperidinol derivative having the general formula



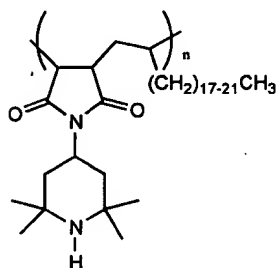
wherein X is oxygen; Y is hydrogen, hydroxyalkyl, aminoalkyl, or alkyl substituted

by both hydroxyl and amino groups, where the alkyl has up to about 20 carbon atoms on average; R<sup>6</sup> and R<sup>7</sup> are each independently selected from the group consisting of hydrogen, an alkyl group, an alkenyl group, or an arylalkyl group; R<sup>8</sup>, R<sup>9</sup>, R<sup>10</sup>, and R<sup>11</sup> are each independently selected from the group consisting of an alkyl group having 1 to about 6 carbon atoms, phenyl, an arylalkyl group, an aromatic heterocyclic group having 5 or 6 carbon atoms, and containing an oxygen, sulphur or nitrogen atom, or R<sup>8</sup>, R<sup>9</sup>, R<sup>10</sup>, and R<sup>11</sup> respectively, together or with the carbon atom to which they are attached are a C<sub>5</sub> to C<sub>12</sub> cycloalkyl group; Z is an oxy radical, an alkyl group, an alkenyl group, an alkoxyalkyl group, an arylalkyl group that is unsubstituted or which has one or more substituents in its aryl moiety; and R<sup>13</sup> is hydrogen, an alkyl group, an ester, a carbonyl, an acyl group, an aliphatic acyl group, or a group represented by the formula -COOR<sup>15</sup>, or -OOCR<sup>15</sup>, wherein R<sup>15</sup> is an alkyl group, a benzyl group, a phenyl group.

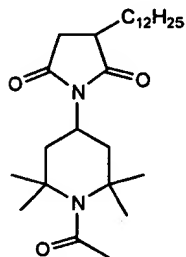
6. The composition of claim 5, wherein said hindered amine light stabilizer has the formula:



wherein n is on average greater than about 9, and less than about 12, by the formula:



wherein n is on average greater than about 4, and less than about 7, by the formula:



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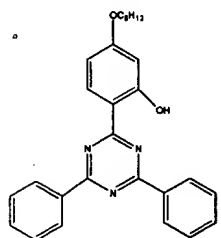
Sub A1  
cont  
[c7]

stabilizers.

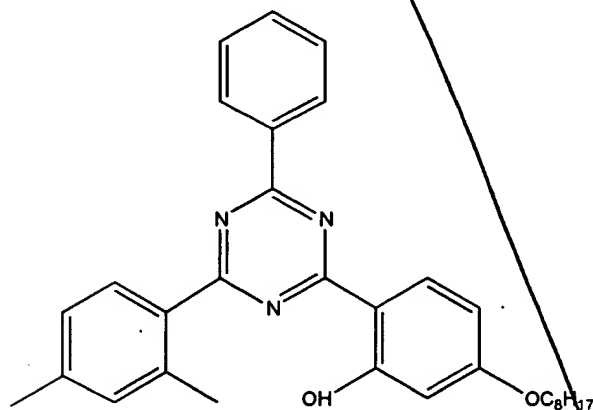
7. The composition of claim 3, wherein said hindered amine light stabilizer is present in an amount greater than about 0.1% by weight, and less than about 10% by weight of the total weight of said upper layer.

[c8] 8. The composition of claim 1, wherein said low volatility hydroxyphenyl-triazine or -pyrimidine UV absorber contains a 2,4,6-trisaryl-1,3,5-triazine moiety and a free hydroxyl group, or contains a 2,4,6-trisaryl-1,3-pyrimidine moiety and a free hydroxyl group.

[c9] 9. The composition of claim 1, wherein said low volatility hydroxyphenyl-triazine or -pyrimidine UV absorber has the formula:



or the formula:



[c10] 10. The composition of claim 8, wherein said low volatility hydroxyphenyl-triazine or -pyrimidine UV absorber is present at a concentration greater than or equal to about 0.01% by weight, and less than or equal to about 10% by weight of said upper layer.

[c11] 11. The composition of claim 1, wherein the substrate comprises polycarbonate.

[c12] 12. The composition of claim 1, wherein the substrate is in the form of a film.

[c13] 13. The composition of claim 1 having a gloss measured at an angle of 60

Sub A1  
cont.

degrees of more than about 60%, a change in gloss of less than about 20% 3000 hours of weathering according to the ISO4892-2A protocol , and a change in color of less than about 3 after 3000 hours of weathering according to the ISO4892-2A protocol.

[c14] 14.The composition of claim 13 wherein the gloss is greater than about 70%, the change in gloss is less than about 15%, and the change in color is less than about 2.

[c15] 15.The composition of claim 13, wherein the gloss is greater than about 80%, the change in gloss is less than about 10%, and the change in color is less than about 1.

[c16] 16.The composition of claim 1 having a gloss measured at an angle of 60 degrees of more than about 75%, a change in gloss of less than about 15% after after heat aging at 80 ° C for three months, and a change in color of less than about 2 after heat aging at 80 ° C for three months.

[c17] 17.The composition of claim 16 wherein the gloss is greater than about 80%, the change in gloss is less than about 10%, and the change in color is less than about 1.5.

[c18] 18.The composition of claim 13, wherein the gloss is greater than about 85%, the change in gloss is less than about 5%, and the change in color is less than about 1.

[c19] 19.A multilayer composition, comprising  
an upper layer comprising  
a polymer system consisting essentially of a cycloaliphatic polyester resin, and  
an additive composition comprising a hindered amine light stabilizer and a low volatility, hydroxyphenyl-triazine or -pyrimidine UV absorber;  
an intermediate layer comprising  
a polymer system consisting essentially of a cycloaliphatic polyester, and an additive composition comprising  $\text{TiO}_2$ , and optionally dyes, pigments, special effects additives, or a combination thereof; and  
a polycarbonate substrate layer, wherein said intermediate layer is disposed between and in intimate contact with said upper layer and said substrate layer.

